# Climate and Hydrology Monthly Report for Puerto Rico and the US Virgin Islands

## Valid for February 2025

Issued By: WFO San Juan, PR

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# February Climate Summary for Primary Climate Sites

## San Juan Area
**(Period of Record: 1898 to present)**

Highest: **88 °F** on the 24th
Lowest: **72 °F** on the 3, 5, 15, 17, & 18th
Average: 79.8 °F (+2.0; above normal)
Rain Total: 3.28” (+0.70; above normal)

Days with $T_{max}$ >= 90 °F: 0
Nights with $T_{min}$ >= 80 °F: 0
Days with Rain ( >= 0.01”): 23

### Rankings:
**3rd warmest**
**13th wettest**

### Remarks:
**6 daily warmest minimum records set or tied.**

## St. Thomas
**(Period of Record: 1953 to present)**

Highest: **88 °F** on the 27th
Lowest: **72 °F** on the 11 & 12th
Average: 80.2 °F (+1.3; above normal)
Rain Total: 1.04” (-0.86; below normal)

Days with $T_{max}$ >= 90 °F: 0
Nights with $T_{min}$ >= 80 °F: 0
Days with Rain ( >= 0.01”): 12

### Rankings:
**7th warmest**
**19th driest**

### Remarks:
**3 daily warmest minimum records set or tied**

## St. Croix
**(Period of Record: 1951 to present)**

Highest: **87 °F** on the 7 & 23th
Lowest: **72 °F** on the 17, 22nd
Average: 80.1 °F (+2.1; above normal)
Rain Total: M

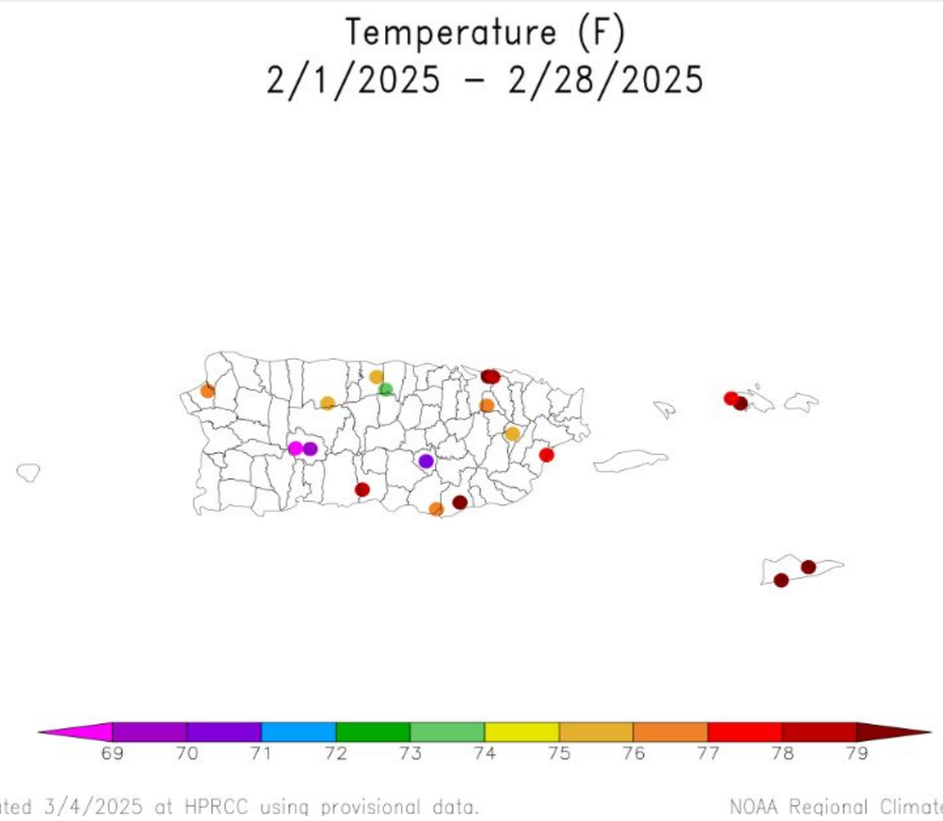
Days with $T_{max}$ >= 90 °F: 0
Nights with $T_{min}$ >= 80 °F: 0
Days with Rain ( >= 0.01”): M

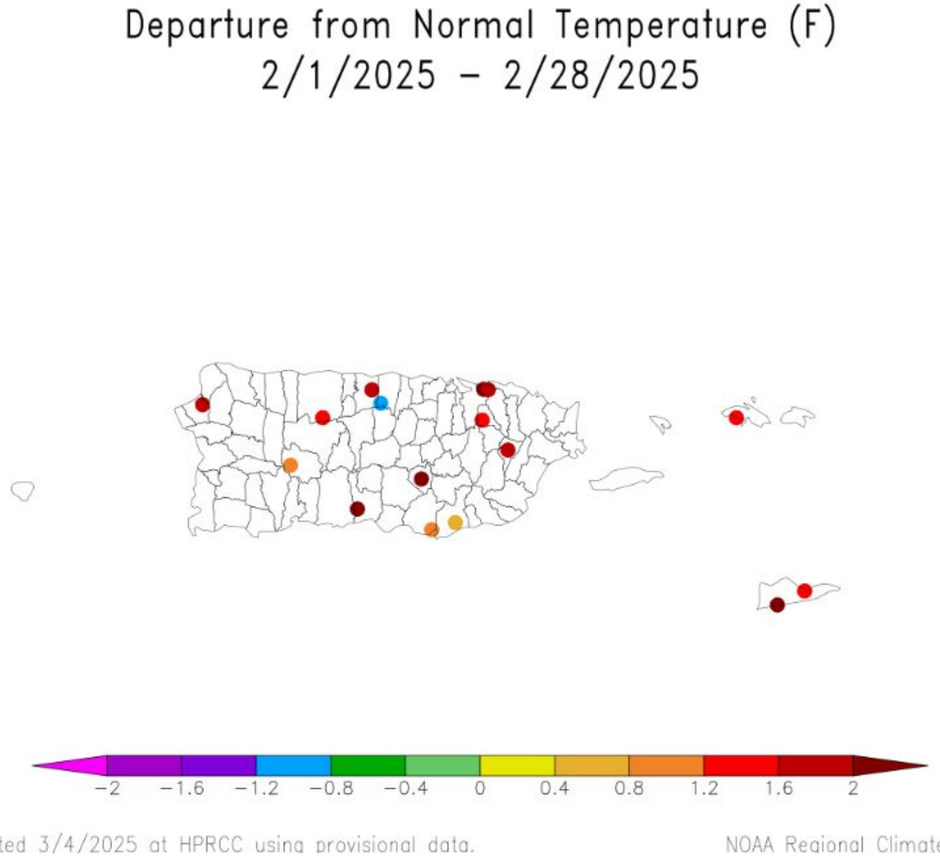
### Rankings:
**2nd warmest**

### Remarks:
**5 days of missing data in February.**
**No precipitation estimates due to a sensor malfunction.**

# Observed Temperature

**Link to generate the latest [ACIS Climate Maps]**



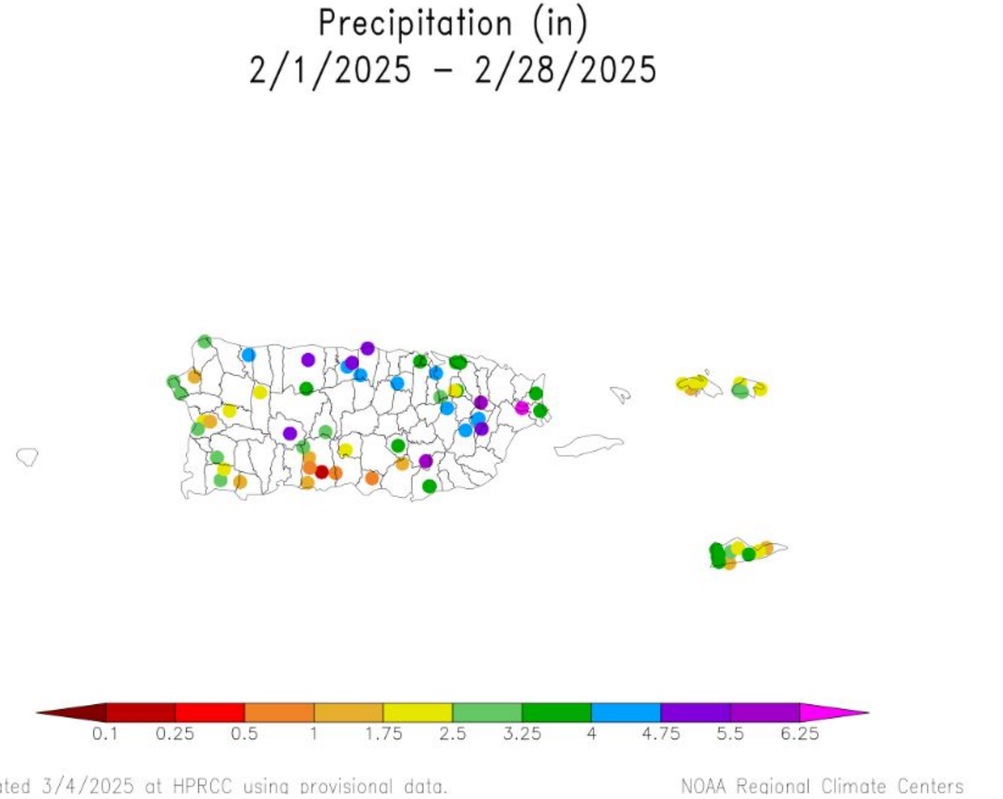



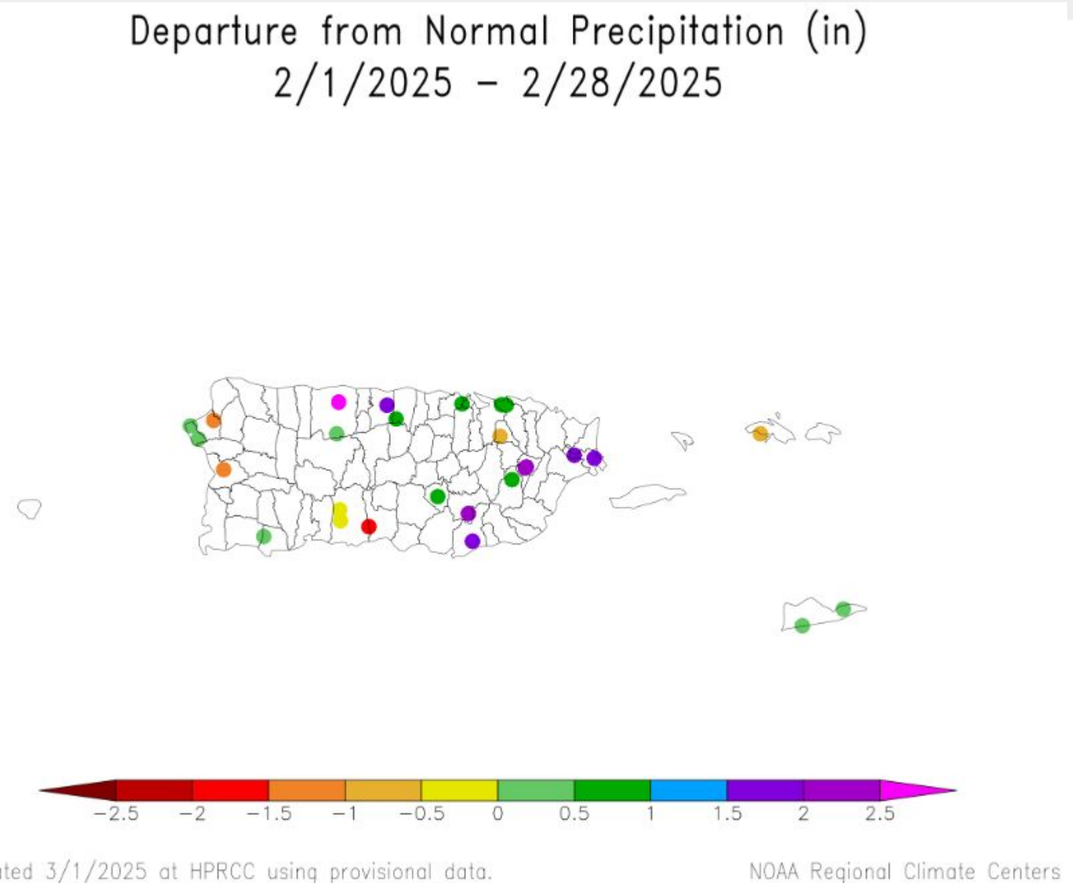

- Temperatures across the majority of the local sites have been mostly above normal.The COOP station with the highest daily maximum temperature was Lajas Substation with **93F.**

Image Captions:
Left - Observed Average Temperature for Puerto Rico and US Virgin Islands (COOP)
Right - Departure from normal temperature for Puerto Rico and US Virgin Islands (COOP)
Data Courtesy High Plains Regional Climate Center/NWS COOP Stations.

# Observed Rainfall

**Link to generate the latest [ACIS Climate Maps]**




- Most stations Puerto Rico and  the Virgin Islands ended drier than normal, with some exceptions along the north-central and eastern Puerto Rico . The COOP station with the highest monthly rainfall accumulation was **Paraíso** in Ceiba, with **8.09**".

Image Captions:
Left - Observed Average Temperature for Puerto Rico and US Virgin Islands (COOP)
Right - Departure from normal temperature for Puerto Rico and US Virgin Islands (COOP)
Data Courtesy High Plains Regional Climate Center/NWS COOP Stations.

# Estimated Rainfall

**Estimated Rainfall was obtained from NWPS (Puerto Rico), and CoCoraHS (Virgin Islands)**

- The highest rainfall accumulations were observed across the north-central, east and southeast of Puerto Rico, with amounts of 8 to 15 inches.
- Western Puerto Rico saw 2 to 5 inches, with higher amounts in the southwest (4-8”).
- Lower accumulations were observed in the southern plains and the northwest corner, with amounts of 2 inches or less.
- Above normal rainfall was observed in the Virgin Islands, with 2 to 4” in Saint Croix, and 2-3” in Saint Thomas and Saint John.

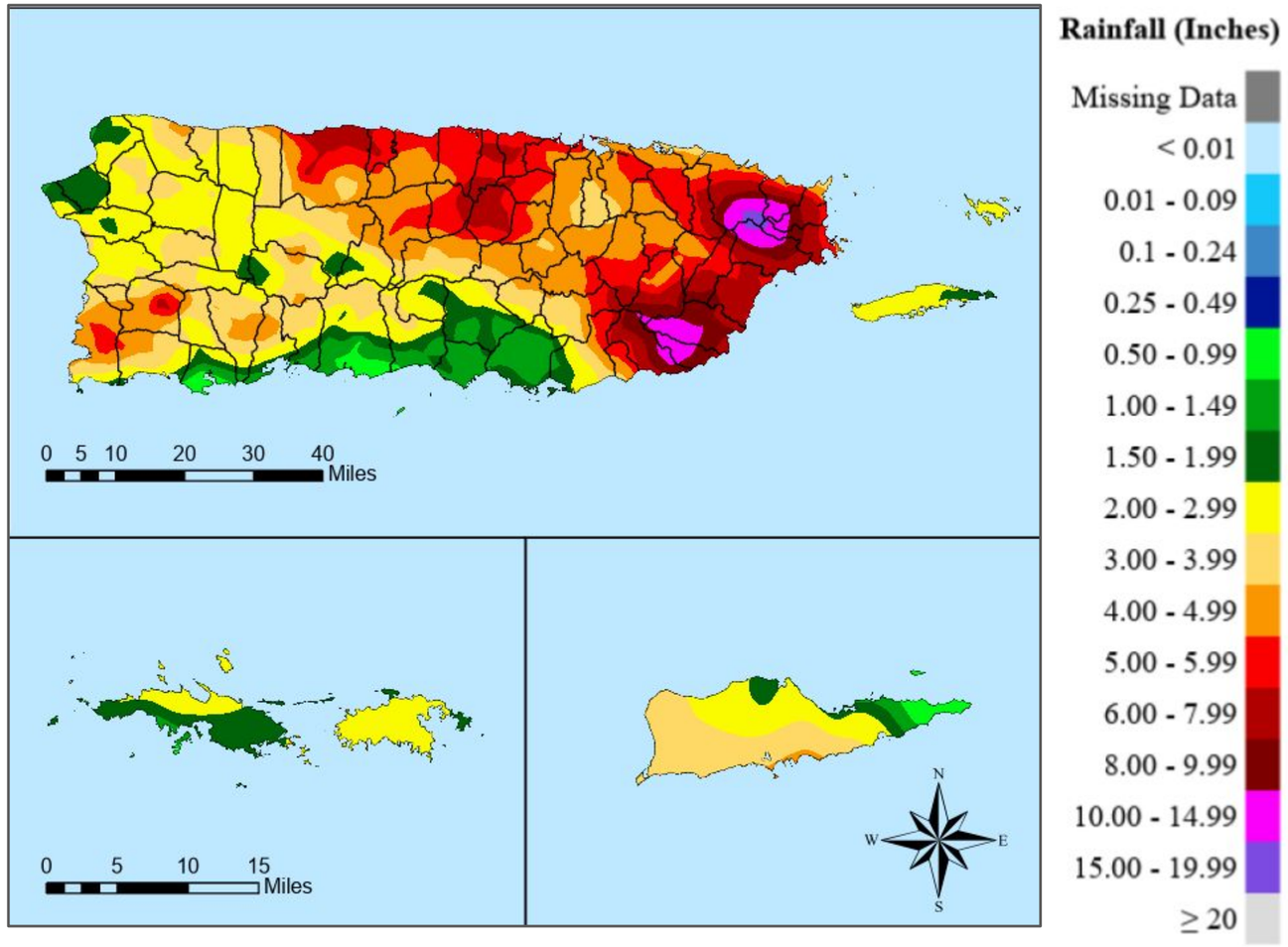



Image Captions:
Estimated Rainfall for the month of February. This map is courtesy of the NWS SJU GIS Team.

# Departure from Normal Rainfall

**Estimated Departure from normal was obtained from NWPS.**

- Above-normal precipitation was observed across most of Puerto Rico. The greater surplus is observed across southeastern and eastern Puerto Rico, with 4 to 9 inches above normal.
- The only area with rainfall deficits is across northwestern Puerto Rico, especially for the area of Rincón, Aguada, Aguadilla, and Isabela. The deficits are 1 to 2 inches below normal.

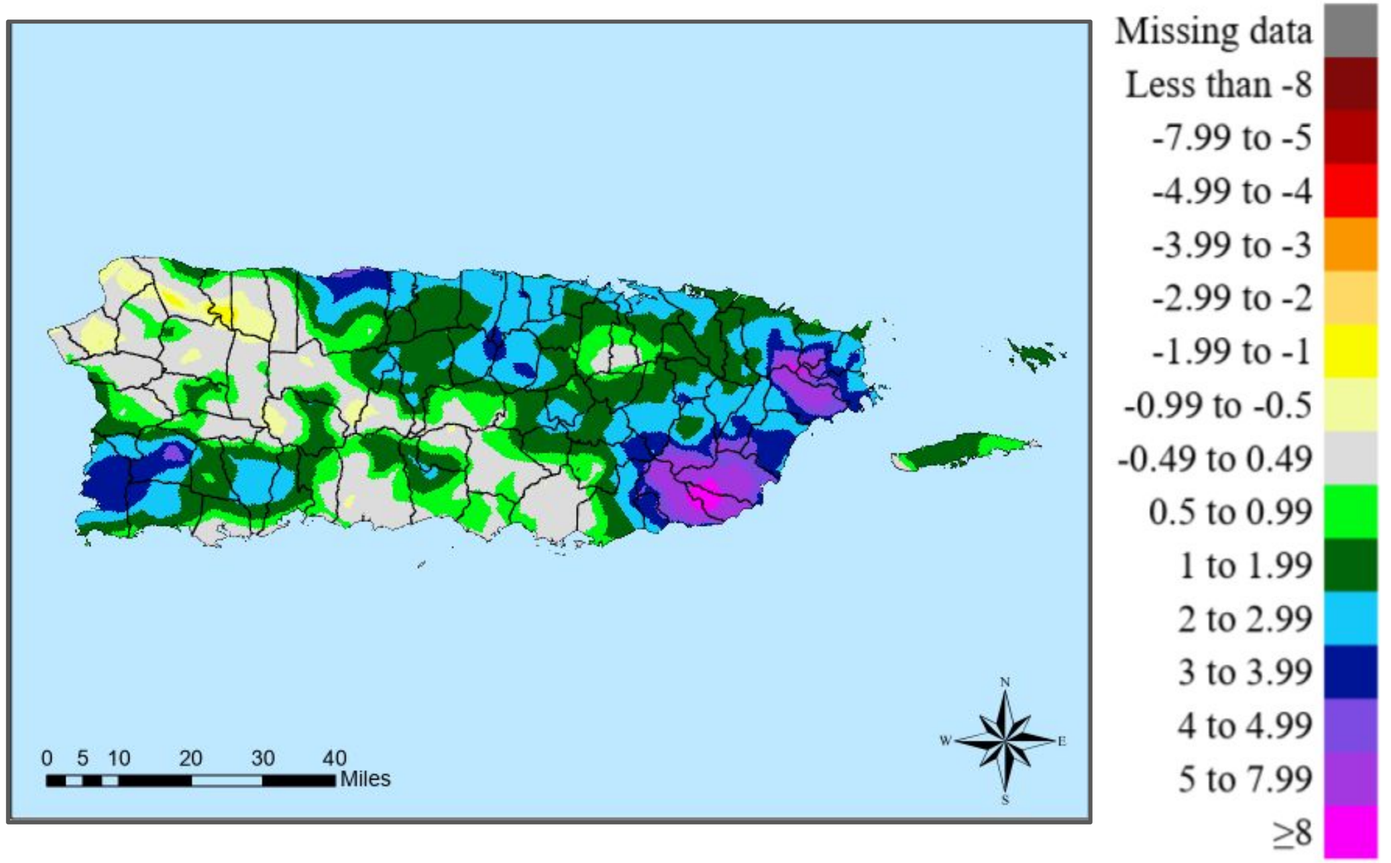



Image Captions:
Estimated Departure from Normal Rainfall for Puerto Rico during the month of February. This map is courtesy of the NWS SJU GIS Team.
*NWPS does not provide rainfall departure from normal for the USVI.

# Hydrologic Conditions and Impacts

**The latest soil monthly streamflow for Puerto Rico can be found on WaterWatch**

- The 28-day average streamflow from the USGS river gauge network indicates most streamflows running near normal or just above normal. For Reservoir levels, click here.

| Non-Routine Hydrologic Products Issued | Products issued for the month |
|---|---|
| Hydrologic Outlooks (SJUESFSJU) | 0 |
| Flood Watches (SJUFFASJU) | 0 |
| Flood Warnings (SJUFLWSJU) | 0 |
| Flash Flood Warnings (SJUFFWSJU) | 0 |
| Urban/Small Stream Flood Advisories (SJUFLSSJU) | 2 |
| Local Storm Reports (SJULSRSJU) | 1 |

Latest Monthly Average Streamflow from USGS

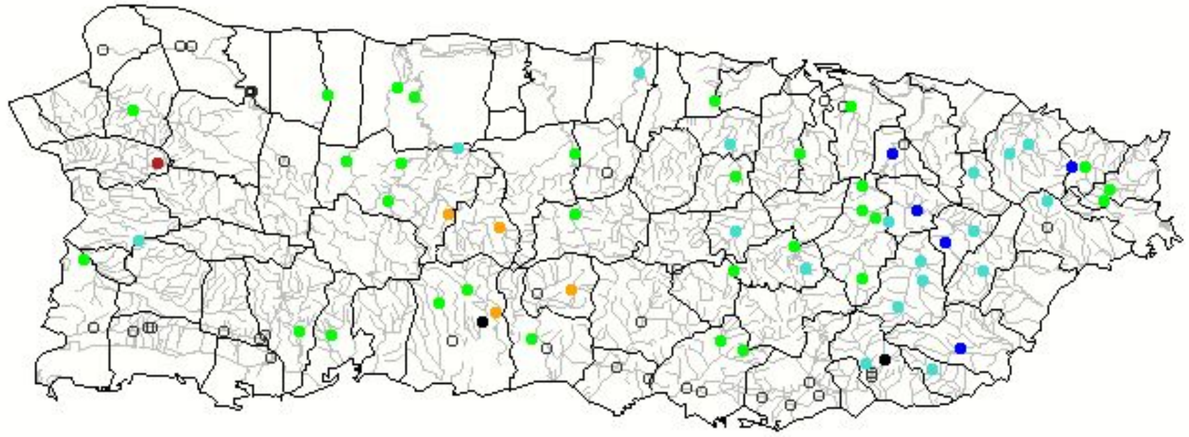
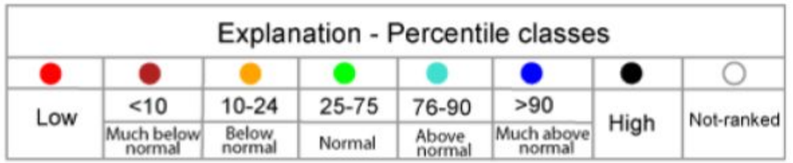


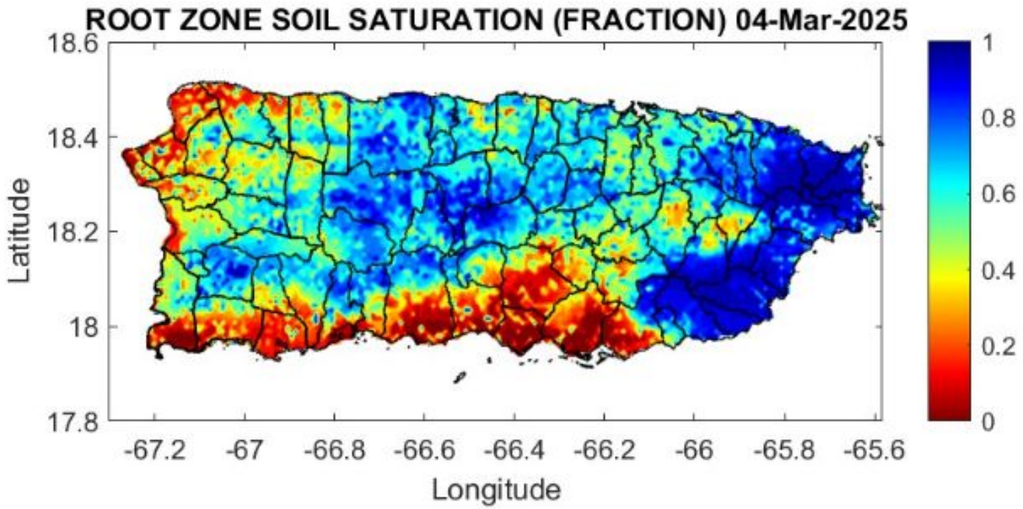
Image Caption: February 2025 compared to historical streamflows for Puerto Rico.



# Soil Saturation

**The latest soil moisture information for Puerto Rico can be found on PRAGWATER**

The latest data retrieved from PRAGWATER indicate drying soils for the south and northwest. Vegetation stress is also observed along the southern plains and in the extreme northwest corner.



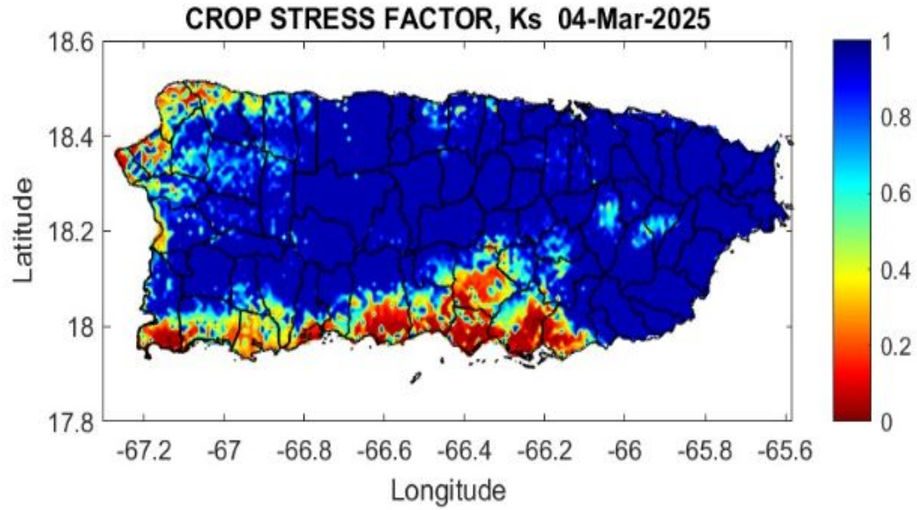




Image Caption: (Left) Crop Stress Factor for Puerto Rico. (Right) Root Zone Soil Saturation Fraction. Soil saturation: 1=Saturated. Crop Stress Factor: 0=high

# U.S. Drought Monitor

**Link to the [latest U.S. Drought Monitor] for the Caribbean**

**DROUGHT CONDITIONS :** No drought or dryness is currently observed in the islands.

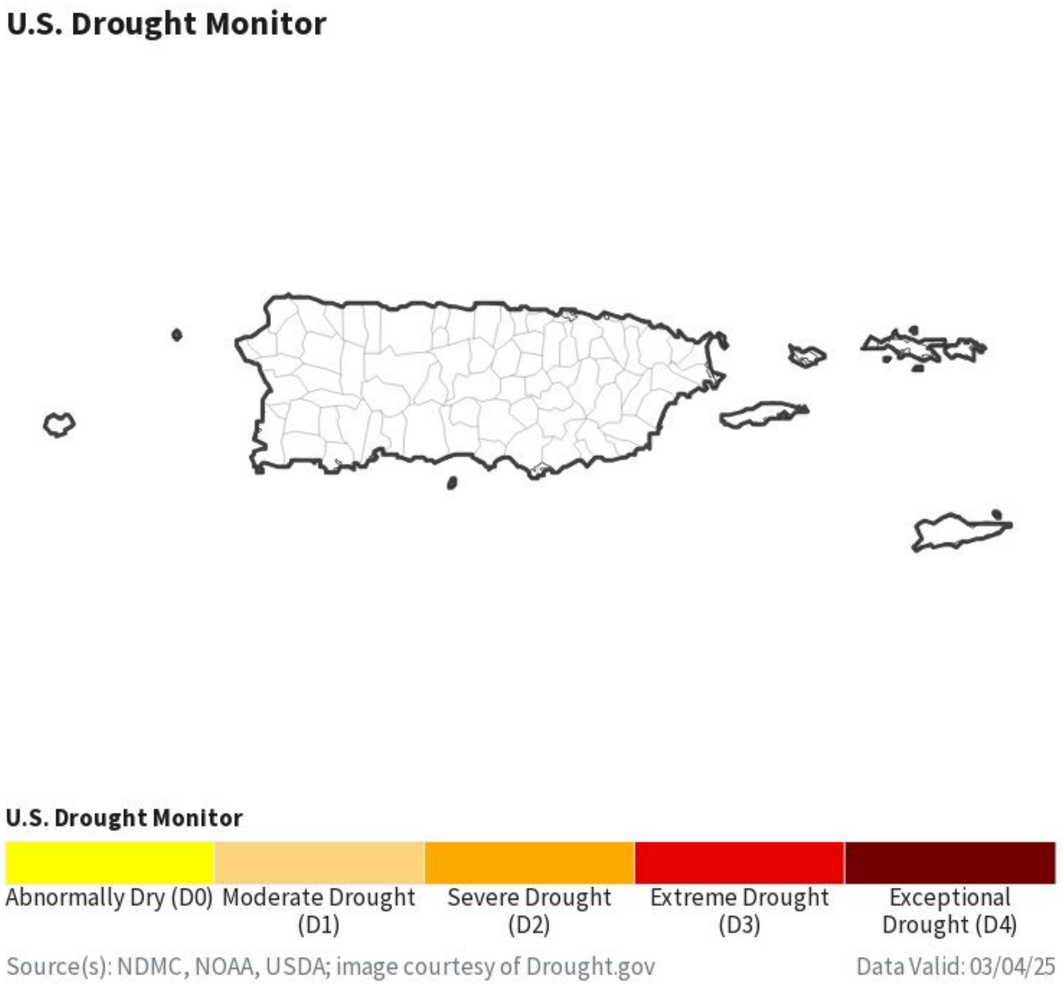



Image Caption: U.S. Drought Monitor valid 8am EDT Mar 4th, 2025

# Recent Change in Drought Intensity

**Link to the latest [4-week change map] for the Caribbean**

## Four Week Drought Monitor Class Change.

- No changes in drought has been observed in the last couple of months.

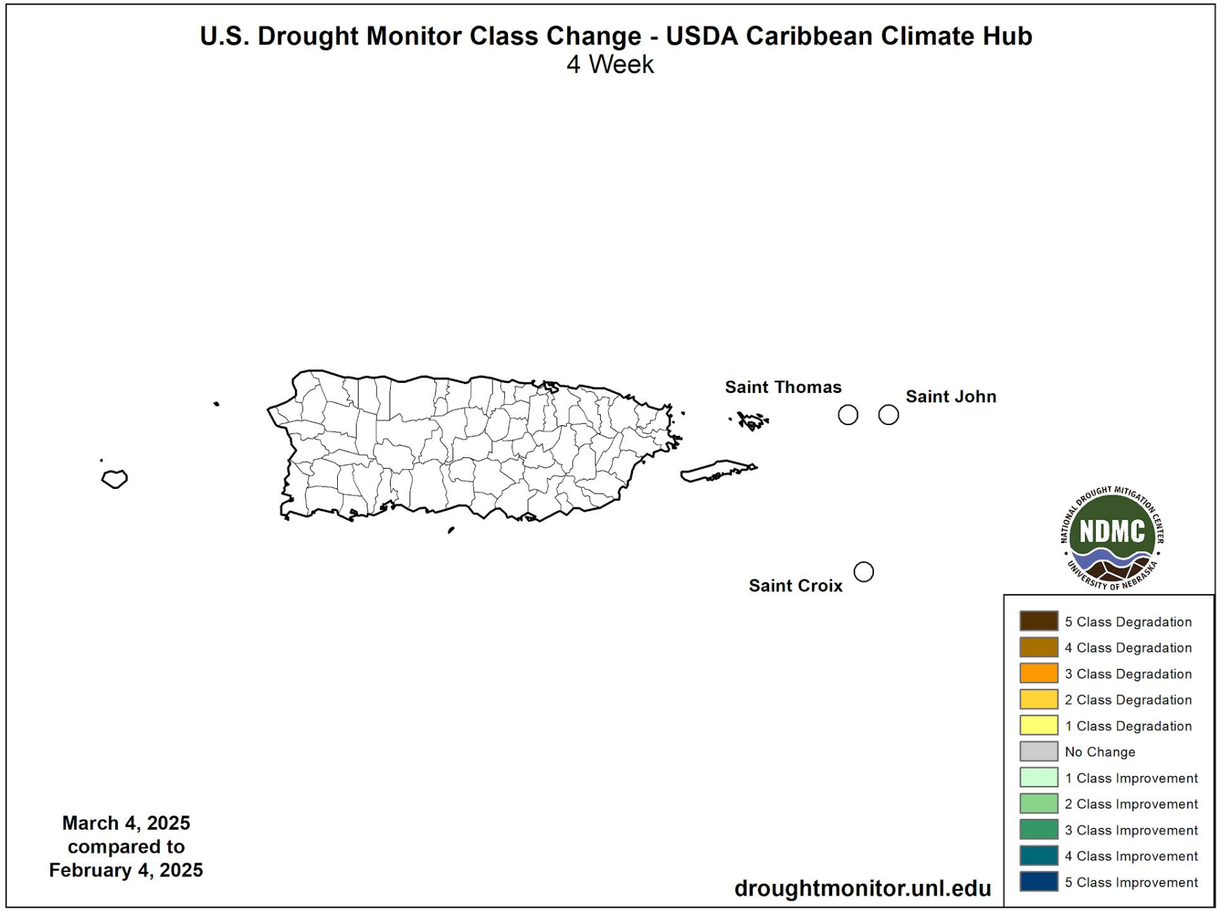



Image Caption: U.S. Drought Monitor 4-week change map valid 8am EDT March 4th, 2025.

# Long-Range Precipitation Outlook

**The latest monthly and seasonal outlooks can be found on the CPC homepage**

- The **North American Multi-Model Ensemble (NMME)** shows a chance of 40-50% of above normal precipitation for the spring and early summer months (April-May-June) across the northeastern Caribbean.

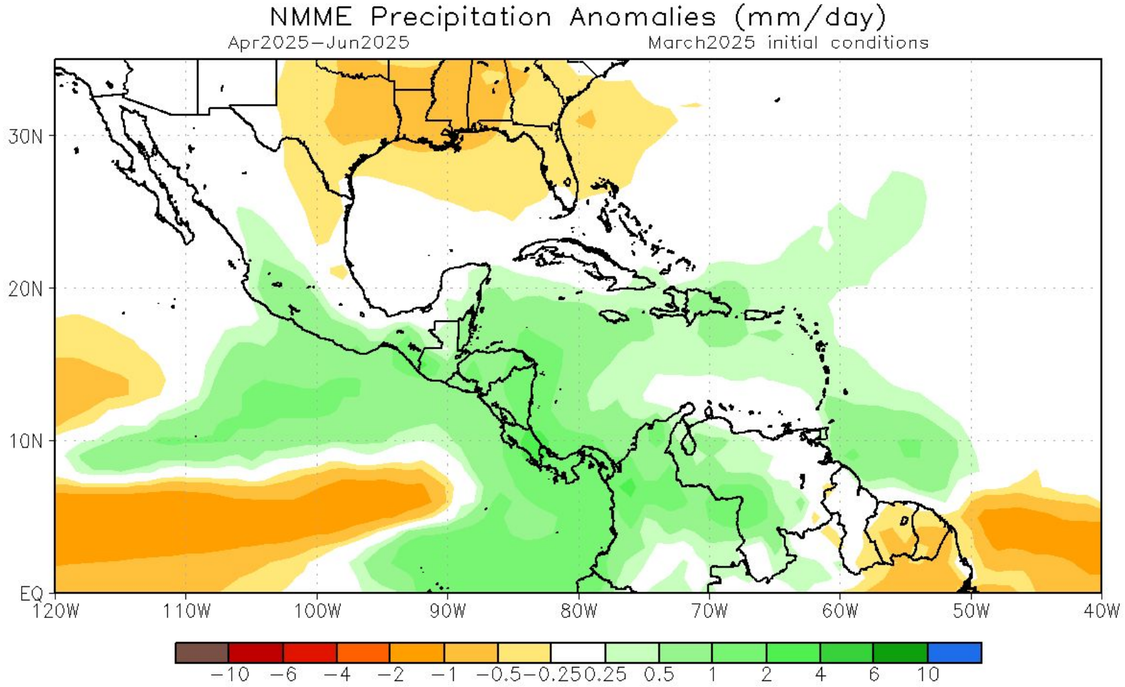



Image caption: NMME precipitation forecast issued March 2025. Valid April-May-June 2025.

# Long-Range Temperature Outlook

**The latest three-months temperature outlook can be found on the [CPC homepage]**

- Based on the **North American Multi-Model Ensemble (NMME)**, there is a ≥ 70% chance of observing above normal temperature for the period of April-May-June 2025. The temperatures are forecast to be nearly 0.25-1° C ( 0.5-1.8 °F) above normal .

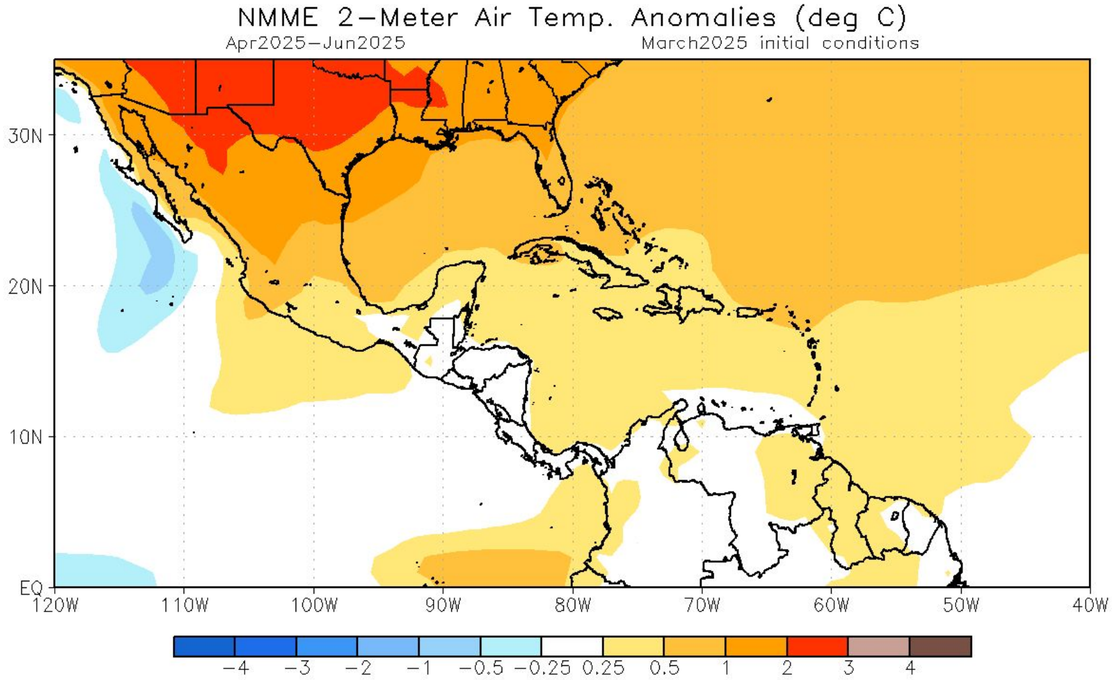



Image caption: NMME temperature forecast issued March 2025. Valid April-May-June 2025.

# Long Range Drought Outlook

**The latest monthly and seasonal outlooks can be found on the CPC homepage**

- Based on the expected conditions, no drought is expected to develop in Puerto Rico or the Virgin Islands in the upcoming three months.

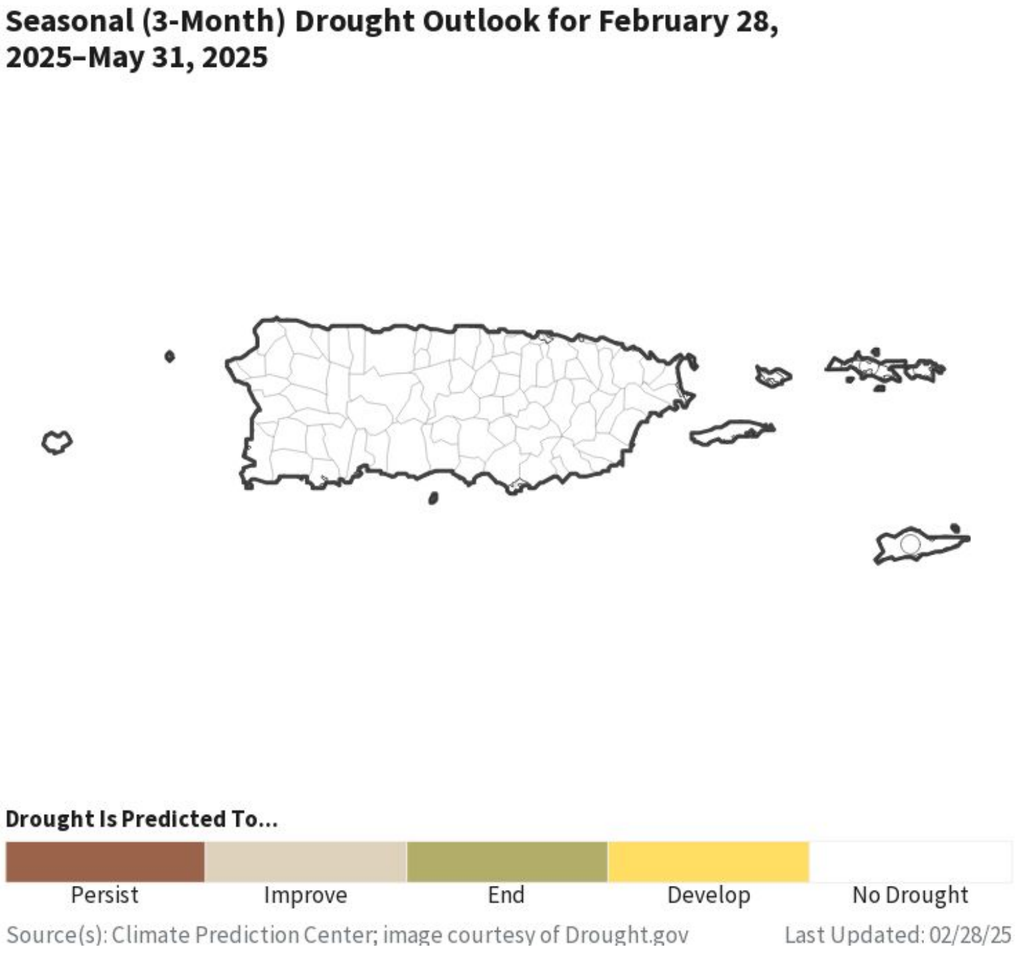



Image Caption: U.S. Seasonal Drought Outlook Valid for February 28th to May 31st, 2025.